IDENTIFICATION

MAINDEC-08-DGDPA-A-D

PRODUCT CODE: PRODUCT NAME:

DR8-EA DIAGNOSTIC (FOR USE ON SYSTEMS THAT HAVE A TRADITIONAL PDP-8 PROCESSOR WITH A DW8/E OMNIBUS CONVERTER

JULY 3, 1973 DATE REVISED!

MAINTAINERS

DIAGNOSTIC GROUP

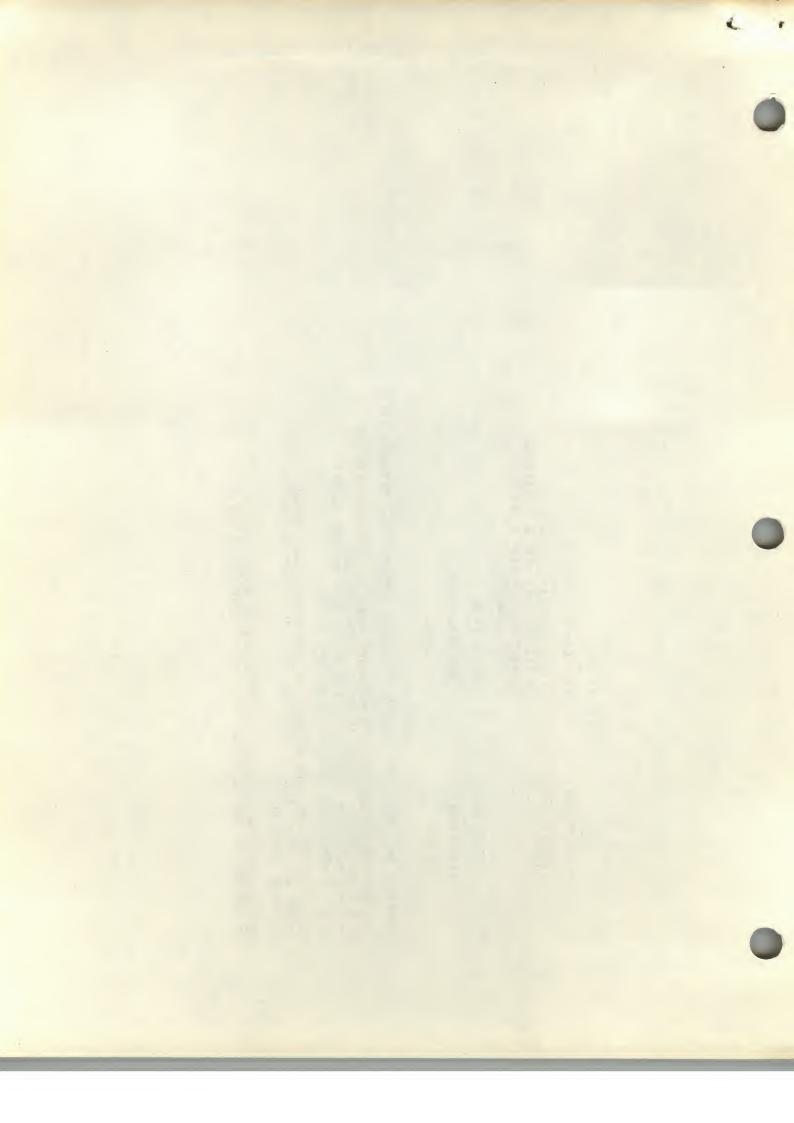
MIKE HARE AUTHOR:

COPYRIGHT (C) 1972, 1973, DIGITAL EQUIPMENT CORPORATION; MAYNARD, MASS,

THIS SOFTWARE IS FURNISHED TO PURCHASER UNDER A LICENSE FOR USE ON A SINGLE SYSTEM AND CAN BE COPIED (WITH INCLUSION OF DEC'S COPYRIGHT NOTICE) ONLY FOR USE IN SUCH SYSTEM, EXCEPT AS MAY OTHERWISE BE PROVIDED IN WRITING BY DEC,

THE INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION.

DEC ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DEC.



THIS DIAGNOSTIC HAS BEEN MODIFIED FOR TESTING THE DRB-EA INTERFACE ON SYSTEMS THAT HAVE A TRADITIONAL POP-8 PROCESSOR WITH A DWB/E BUS CONVERTER. FOR EITHER STARTING ADDRESS, NORMAL SETTING IS SRB-SR11= THE STANDARD PROCEDURE FOR LOADING BINARY TAPES SHOULD THIS PROGRAM IS A DIAGNOSTIC AND EXERCISER FOR THE DR8-EA 12 CHANNEL BUFFERED DIGITAL INTERFACE. ALL FUNCTIONS ARE REPORTED BY HALTS AND/OR ERROR TYPEOUTS. SET SWITCH REGISTER TO DESIRED STARTING ADDRESS TRADITIONAL PDP-8 COMPUTER WITH 4K OF CORE ASR-33 TELETYPE (OR EQUIVALENT)
DW8/E BUS CONVERTER 285-INPUT DEVICE CONFIGURATION 281-START WITH STANDARD CONFIGURATION THE PROGRAM USES LOCATIONS BOBB-4121 PROGRAM AND/OR OPERATOR ACTION CLEAR SWITCHES PRESS CLEAR AND CONTINUE DRB-EA WITH TEST CABLE STARTING PROCEDURE LOADING PROCEDURE STARTING ADDRESS SHITCH SETTINGS LOAP ADDRESS REGUIREMENTS EGUIPMENT BE USED. ABSTRACT STORAGE 4.3 4.2 2,2 5

THE PROGRAM WILL TYPE "SET SR FOR DEVICE CODE AND CONT" AND THEN HALT.

SET SWITCHES TO DOOX WHERE X IS AN OCTAL NUMBER CORRESPONDING TO THE 3 LSB OF THE DEVICE SELECTOR CODE; E.G. IF DEVICE CODE IS 53, SET SR TO 0003, PRESS CONTINUE.

PROCRAM WILL RESPOND BY TYPING "SET SR FOR INTERRUPT JUMPERS AND CONT" AND THEN HALT. SET SWITCHES FOR ALL INPUT REGISTER BITS JUMPERED TO INTERRUPT. PRESS CONTINUE.

PROGRAM WILL RESPOND BY TYPING \*SET SR FOR FLIPFLOP JUMPERS AND CONT" AND THEN HALT. SET SWITCHES FOR ALL INPUT REGISTER FLIPFLOPS. PRESS CONTINUE.

PROGRAM WILL RESPOND BY TYPING "SET SWITCHES AS DESIRED. (REFER TO SECTION 5.1) PRESS CONTINUE.

PROGRAM WILL BEGIN TEST EXECUTION

4.3.2 FOR STARTING ADDRESS 201

SET SWITCHES AS DESIRED. (REFER TO SECTION 5,1)

PROGRAM WILL BEGIN TEST EXECUTION

OFERATING PROCEDURE

OPERATIONAL SWITCH SETTINGS

5,1

SRD=1, SUPPRESS ERROR HALT
SR1=1, SUPPRESS ERROR TYPEOUT
SR2=1, LOOP ON CURRENT TEST
SR3=1, LOOP WITH CURRENT DATA
SR4=1, SUPPRESS BELL OR TYPEOUT AT END OF PASS
SR5=1, SUPPRESS ITERATIONS
SR5=1, ESCAPE TO NEXT TEST ON ERROR

5.2 PROGRAM AND/OR OPERATOR ACTION

5.2.1.1 WITH SWITCHES SET AS IN 4.2, THE PROGRAM WILL RUN ALL
TESTS SEQUENTIALLY, EACH 10T TEST WILL BE REPEATED 4096
TIMES, EACH DATA TEST WILL BE REPEATED 50 TIMES, AFTER
ALL TESTS HAVE BEEN COMPLETED, THE PROCRAM WILL TYPE "DR"
AND START ALL TESTS AGAIN,
IF AN ERROR OCCURS, THE PROGRAM WILL HALT AND TYPE AN
APPROPRIATE ERROR MESSAGE (SEE SECTION 6 FOR DETAILS).

5.2.1.2 WITH SRØ=1 (UP), PROGRAM ACTION WILL BE AS IN 5.2.1.1. EXCEPT NO TYPEOUT WILL OCCUR.

5.2,1.3 WITH SR2=1(UP) PROGRAM ACTION WILL BE AS IN 5,2,1.1. EXCEPT NO TYPEOUT WILL OCCUR, THE ADDRESS OF THE FAILING TEST WILL BE DISPLAYED IN THE COMPUTER AC.

5.2.1.4 WITH SR4=1(UP), PROGRAM ACTION WILL BE AS IN 5.2.1.1 EXCEPT NO END OF PASS TYPEOUT WILL OCCUR.

5.2.1.5 WITH SR541 (UP), EACH TEST WILL BE EXECUTED ONLY ONCE. INSTEAD OF TYPING "DR", THE PROGRAM WILL RING THE TTY BELL

5.2.1.6 WITH SRB=1 AND SR6=1, PROGRAM ACTION WILL BE AS IN 5.2.1.1
If NO ERRORS OCCURS, THE PROGRAM WILL TYPE AN APPROPRIATE ERROR MESSAGE AND IMMEDIATLY TERMINATE ITERATIONS OF THE FAILING TEST. THE PROGRAM WILL THEN START THE NEXT TEST

ERRORS

. 9

NORMAL OPERATION

6.1

IF AN ERROR OCCURS WITH SWITCHES SET AS IN 4.2, THE PROGRAM WILL TYPE AN APPROPRIATE ERROR MESSAGE (WITH DATA IF APPLICABLE) AND HALT.

THE FORMAT OF THE ERROR TYPEOUT IS

XXXX MESSAGE
HEADER FOR DATA (IF APPLICABLE)
DATA
(IF APPLICABLE)
WHERE XXXXX ADDRESS OF JMS TO ERROR ROUTINE IN TEST THAT FAILED.

ERROR RECOVERY 6,2 SET SR6=1(UP) TO ESCAPE TO NEXT TEST, PRESS CONTINUE.

ERROR LOOP (1015) 6.3 TO SUPPRESS HALT TO SUPPRESS TYPEOUT TO LOOP ON CURRENT FAILING TEST 

ERROR LOOP (DATA) 4.9 SAME AS 6.3 EXCEPT USE SR3 INSTEAD OF SR2 TO LOOP WITH CURRENT DATA.

RESTRICTIONS

STARTING RESTRICTIONS

7,1

TEST JUMPER CABLE MUST BE INSTALLED. ANY FLOATING INPUTS TO INPUT REGISTER SHOULD BE GROUNDED, OR ERRORS MAY OCCUR.

OPERATING RESTRICTIONS

7.2

ALL BASIC 10T TESTS ARE EXECUTED 4096 TIMES,
ALL OUTPUT REGISTER FUNCTIONS ARE TESTED WITH BINARY COUNT PATTERNS.
ALL INPUT REGISTER FUNCTIONS ARE TESTED USING BINARY COUNT PATTERNS.
INTERACTION BETWEEN INPUT AND OUTPUT REGISTERS IS TESTED FOR WITH BINARY COUNT PATTERNS.
ALL SKIPS AND INTERRUPTS ARE TESTED USING BINARY COUNT PATTERNS. EXECUTION TIME IS APPROXIMATELY 9 MINUTES FOR FULL ITERATION AND APPROXIMATELY 10 SECONDS WITH ITERATIONS SUPPRESSED. THE DR8-EA IS A TEST OF ALL FUNCTIONS OF THE INTERFACE. THE PROGRAM SEQUENCE IS AS FOLLOWS!

WISCELLANEOUS

EXECUTION TIME

8,1

PROGRAM DESCRIPTION 0

10.

LISTING

```
/MAIMDEC-08-DGDRA-A DR8-EA DIAGNOSTIC FOR TRADITIONAL PDP8 PROCESSORS
/WITH ADDW8/E OMNIBUS CONVERTER
/COPYRIGHT 1972,1973 DIGITAL EQUIPMENT CORP., MAYNARD, MASS. 01754
                            201-USE STANDARD CONFIGURATION
                                                                                         SUPPRESS BELL AT END OF PASS SUPPRESS ITERATIONS ESCAPE TO NEXT TEST ON ERROR
                                                                                                                                                                                                                                                                                                                                                             /INTERRUPT JUMPER MASK
                                                                                                                                                                                                                                                                                                                                                                            IFLIPFLOP JUMPER MASK
                                                              SUPPRESS HALT ON ERROR
SUPPRESS ERROR TYPEOUT
LOOP ON CURRENT TEST
LOOP WITH CURRENT DATA
                                                                                                                      INSTRUCTION DEFINITIONS
                                                 SWITCH REGISTER OPTIONS
                                                                                                                                                                                                                               LOCATION EQUIVALENCIES
                            STARTING ADDRESS!
                                                                                                                                                                                                                                                                   GENERAL VARIABLES
                                                                                                                                                                       MSTDGT=ERADR+1
LSTDGT=ERADR+2
                                                                                    4 1 2
                                                                                                                                                                                                                  BRO = JMS I
                                                                                                                                                                                                          DBSO=JMS
                                                                                                                                                                                                                                                                                        JMP I 2
                                                                     /SR821
/SR821
/SR821
                                                               SROO
                                                                                                        SRØ6
                                                                                                                                                                                                                                                                                                                                                                           7777
                                                                                                                                                                                                                                                                                                                                                              7777
                                                                                                                                                                                                                                                                                                                                        DATAS.
DATAS.
DATAS.
IJUMPE.
                                                                                                                                                                                                                                                                                                                                                                           FJUMPE,
TYPFLG,
                                                                                                                                                                                                                                                                                               *201NT1.
                                                                                                                                                                                                                                                                                                                    CNTA1.
                                                                                                                                    3826
                                                                                                                                                                                                                                                                                 7777
                                                                                                                                                                                                                                                                                                     6010
                                                                                                                                                                                                                                                                                                                                                                           0027
                                                                                                                                                                                                                                                                                                                    2000000
200000
2000000
210000000
```

69	,
LPCNT,	
0000	
0031	

																														/DBCI SKIPPED		2700-72	31110					4			IND INTERRUPT					
/INDIRECT POINTERS	BEI	DBSKX	801	BRI	800	880	BRO	RIS	YPE	2	000	00P	4	UI	- 1	-	*	14 1 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	24		-	-	LAP I SIMBSE	799		- C-	CLA CMA	0801	SKP	HLT	0080		2	LAP I SINGAP		-	3.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 0	0	0	X	SE SIMS	LA CLL CML R	DCA	VO V
	DBE	XDBSK.	080	088	0800	0880	DBRO	PRIN	TYPE	ERRO	LOOP	00	LEBS											K7788.	SIMCAF			:							,	STACKED!							RETURN,			
	926	027	000	00	031	200	932	328	325	260	266	271	0	101		100	9 1	100	9 +	100	7.00	700	1 5446	778	60	699	724	440	741	748	944	3 7482	738	346	8	9 4	44	15	9 69	788	699	741	207	732	200	111
	83	23	8	0	0	6	4	9	9	4	4	4	4	9 1	3 6	9 1	20 E	9 6	9 6	2 60	88	98	8861	90	9	98	9	90	90	01	0	9 6	1	2		1 6	2 .	1.4	10	1	1	10	10	10	410	eri eri

				/CLEAR TYPE FLAG
	COLEAR ALL FLAGS CODE AND CONT" CHALT FOR SWITCHES CRET SW	SAVE BASIC 10† //YPE "SET SR FOR JUMPERS /AND GONT" /HALT FOR SWITCHES /SAVE JUMPER MASK	SET UP WILL BE STORE INSTRUCTION FOR STORE IT STORE IT STORE IT STORE IT STORE IT STORE IT SET SR FOR RUN	ZAND CONT ZHALT FOR SWITCHES ZCLEAR ERROR FLAG ZCO TO FIRST TEST
OMP I SIMSRD CMA TYEL TAD TYEL TYEL TYEL TYEL TYEL TYEL TYEL TYEL	TEST INITIALIZATION  UMP CAF UMS I XPRINT H1=1 HLT LAS CLE RT CAF	TAPL LOCA   100408	TAD CONTRACTORS TAD CONTRACTOR	MS=1 HLT CLA CLL DCA TYPFLG JMP I .+1
SIMMOA.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		e e z a	START2,
200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	2000 2000 2000 2000 2000 2000 2000 200	######################################	22 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

INIT

9246 8488

16119 PAGE 1#3

VINITIALIZATION CONSTANTS AND VARIABLES	/BASIC 10T /BBDIX+1 /BBEIX+1 /BBEIX+1 /BBCIX+1 /BBCIX+1 /BBCIX+1 /BBCIX+1 /BBCIX+1 /BBCIX+1 /BBCIX+1 /IOT SUBROUTINES	SABLE DATA BUFFER INTERRUPT	SKP HLT JMP I DBDIX / /ENABLE DATA BUFFER INTERRUPTS (DBEI,65X1)	SKP HLT 'SKIPS UNDESIRED JMP I DBEIX 'SKIP ON DATA BUFFER INPUT FLAG (DBSK,65x2) 6502	SKP 192 JMP I DESKX / MS TO INPUT RECISTER BORESFEREINS / TO 15 IN AC (DBCI,65X3) / 6583	SKP / TRAP FOR UNDESIRED HLT / SKIPS / SKIPS
v .	00 00 00 00 00 00 00 00 00 00 00 00 00	0801x,	DBEIX	DBSKX	DBGIX	
1	99999999999999999999999999999999999999	2 4 2 2 2 2 2 2	74 20 20 20 20 20 20 20 20 20 20 20 20 20	VVV 24 440 20 420 22 200 20	7.52 634 444 688 500 600 500 600 500 500 600 500 600 500 600 500 600 500 600 500 600 500 600 500 600 500 600 500 600 5	7410
	9999919899 000000000000 40000000000 6940040040000	20 20 20 20 20 20 20 20 20 20 20 20 20 2	888 88 000 00 000 00 000 00 000 00	888 88 888 888 888 888 888 888 888 888 888 888 888 888 888 868 868 868 868 868 868 868 868 868 868 868 868 868 868 868	20 20 20 20 20 20 20 20 20 20 20 20 20 2	888 888 888 888

							. 0				
									*	4096 (DECIMAL)	
AC (DBRI,65X4)		SKIPS UNDESIRED	EGISTER CORRESPONDING TO	TRAP FOR UNDESIRED SKIPS SKIPS SKIPS SKIPS SKIPS SECISTER CORRESPONDING SP80,65X6)		SKIPS FOR UNDESIRED	UT REGISTER TO AC (DBRO 65X7)	SKIPS FOR UNDESIRED	R CLEARED BY INITIALIZE?	CCLEAR ERROR FLAC VINITIALIZE INTERFACE VARVE REGISTER DATA VEST REGISTER DATA VEST REGISTER DATA VEST REGISTER DATA VEST REGISTER DATA VEST REGISTER DATA	
/INPUT REGISTER TO	6584	SKP HLT LMP I DBRIX	/ZEROS TO OUTPUT REGISTER /ONES IN AC (DBCO,65X5) 8	SKP HLT JMP I DBCOX /1S TO OUTPUT REGI	65186	SKP HLT JMP I DBSOX	JAM TRANSFER OUTPUT	HLT OBROX	/IS OUTPUT REGISTER	DCA TYPFLG CAF CBRO DBRO OCA DATA1 TAD DATA1	
	DBRIX.		× 000000000000000000000000000000000000		, xoseo		DBROX.	tu © ≪ 0.		N N N	
	20 0 20 10 20 20 20 4	2441	2 40 20 8U 20 8U	444	888	7444 5747 5747	8 8 8 7 8 7	7477899 4477894 9947999		8844896 8884886 8884888 8884888	
	63305	888 888 888 888 888 888 888 888 888 88	2312	200 200 200 200 200 200 200 200 200 200	0317	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	88 88 48 48	000000 000000 000000 000000		00000000000000000000000000000000000000	(

/MAIND

PAGE 1-5

WOBRO DID NOT CLEAR ACTIVACE CONTENTS.  INUMBER OF WORDS TO BE OUTPUT  ICHECK FOR LOOP ON CURRENT TEST  ILOOF ON CURRENT TEST  ILOOF ON CURRENT TEST  ILOOF ON CURRENT TEST	CCLEAR ERROR FLAG  SET ITERATION COUNT TO 4096 (DECIMAL)  SINITIALIZE INTERFACE  SET AC 2777  SET AC CONTENTS  WAS AC CLEARED BY TRANSFER  NO. ERROR  NO. CLEAR AC  NO. ERROR  NO. CLEAR AC  NO. CLEAR AC	CLEAR ERROR FLAG  SET ITERATION COUNT TO 4096 (DECIMAL)  INTIALIZE INTERFACE  SET OUTPUT REGISTER  SAVE AC CONTENTS  COMPLIMENT DATA TO TEST FOR 7777  COMPLIMENT DATA TO TEST FOR CHANGED ACT  CHECK FOR LOOP ON CURRENT TEST  CHECK FOR LOOP ON CURRENT TEST	GISTER CHANGE TERM CHANGE TO THE CHANGE TO T
TRANIE-1  OHS-1  LMS I XLOOP1  LMP TRANI+2  //OCES INPUT REGISTER	DCA CAF CLA CL CMA CLA CL CMA DCA SNA CLA DATAL SNA CLA CRROR TRANSE=1 LMS I XERROR TRANSE=1 LMS I TRANS+2	CCL CMA  CCL	<u>•</u>
	.α .α 	™ 2 < «	T RANA
DD-4D 	W W 4 F 4 W 4 F W 4 B W 4 B W 4 B B B B B 4 B B B B B 4 B B B B	ちさん ちょうてきちょうちゃくちょうしゅう はっちょう はいいしょう はいいしょう はっこう はっこう はっこう はっこう はっこう はっこう はっこう はっこ	88848888888888888888888888888888888888
99000 4444 4444 480/9	00000000000000000000000000000000000000	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	222222222 55022222 55055555 5505555 5605555 560555 56055 56055 560

/DATA CORRECT, CONTINUE /NO. ERROR /**DBCO CHANGED AC* /**AC CONTENTS** /**CHECK FOR LOOP ON CURRENT TEST /LOOP ON CURRENT TEST /LOOP ON CURRENT TEST /LOOP ON CURRENT TEST	CCLEAR ERROR FLAG  SET ITERATION COUNT TO 4096 (DECIMAL)  INITIALIZE INTERFACE  SET CLEAT 1777  SET CLEAT 1NPUT REGISTER  SAVE AC CONTENTS  COMPLIMENT DATA TO TEST FOR 7777  COMPLECT CONTENTS  CONTENTS	CLEAR ERROR FLAG /CLEAR ERROR FLAG /SET ITERATION COUNT TO 4096 (DECIMAL) /INITIALIZE INTERFACE /BIT SET OUTPUT REGISTER /SAVE AC CONTENTS /GET AC CHANGED /MAS AC CHANGED /AC CHANGED & ERROR /**********************************	BINE COMPE
JMP TRANSFER TO INPUT	DCA CAF CLA CLL CHA DBCI DCA DCA SNA CLA LMS I XERROR TRANSE 1 LMS I XCOOPI JMP TRANSE 2 JMP TRANSE 2	/DOES TRANSFER TO OUTPUT /DCA TYPFLG CAF CAF CBSO CCA LPCNT CAF CBSO CCA LPCNT CAF CBSO CCA LPCNT CAF CBSO CCA LPCNT CAF CBSO CAF	DH2=1  JMS 1 TRANS+2  /DOES TRANSFER TO OUTPUT  DCA TYPFLG  CAF  DBCO
	A A A A A A A A A A A A A A A A A A A	9 A A A A A A A A A A A A A A A A A A A	TRANZ
84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NN 44444444444444444444444444444444444	ALNO BEAGE	N-40 0004
2 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		000000000000	0000 0000 0000

SAVE AC CONTENTS (GET AC CONTENTS (IS AC STILL @ (DATA CORRECT, CONTINYE (NO. ERROR ("DBC CHANGED AC" ("AC CONTENTS" (NUMBER OF WORDS TO BE OUTPUT (CHECK FOR LOOP ON CURRENT TEST (LOOP ON CURRENT TEST (LOOP ON CURRENT TEST	CCLEAR ERROR FLAG  SET ITERATION COUNT TO 4096 (DECIMAL)  INITIALIZE INTERFACE  SET CCONTENTS  SET AC CONTENTS  SET AC CONTEN	CLEAR OUTPUT REGISTER  CCLEAR ERROR FLAG  SET ITERATION COUNT TO 4096(DECIMAL)  INITIALIZE INTERFACE  SET AC #777  SET AC
DCA TAD TAD LMS I XERROR TRANAE T CHS I XEROR TRANAE T CHS I XEOOPI LMS I TRANAE	DCA CAF CAF CAF CAF CAF CAF CAF CAF CAF C	CCAN ALL BITS IN COES INITIALIZE COA CLACL CMA LPCNT CAA LPCNT CAA LPCNT CMA CAA LATA CMA CAA LATA CAA CAA CAA CAA CAA CAA CAA CAA CAA
	P A G E	£100
8990478748 8990478748 8990478748 8448884848	BB 4 4 BB 4 BB 4 4 B	NO 4 P 4 4 D 4 P P V P 4 D D P 4 D 4 P         O B D D 4 4 D D D Q (14 P P P D 4 D D 0         NO 3 4 D 4 U U U U U U U U U U U U U U U U U
<i>@ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ </i>	の り ら の の の の の の の の の の の の の の の の の	ままままままままままままままままままままままままままままままままままままま

TOATA CORRECT, CONTINUE //NO. ERROR /**OUTPUT REG NOT CLEARED" /**REGISTER DATA** /**NUMBER OF WORDS TO BE OUTPUT /*CHECK FOR LOOP ON CURRENT TEST /**LOOP ON CURRENT TEST /**LOOP ON CURRENT TEST	CCLEAR ERROR FLAG /SET ITERATION COUNT TO 4096(DECIMAL) /SET AC = 7777 /BIT SET OUTPUT REGISTER /BIT CLEAR OUTPUT REGISTER /SAVE REGISTER DATA /WAS OUTPUT REGISTER CLEARED /WAS OUTPUT REGISTER CLEARED /WAS OUTPUT REGISTER OLTA /WAS OUTPUT REGISTER NOT CLEARED	CLEAR ERROR FLAG SET ITERATION COUNT CLEAR TEST DATA (INITIALIZE INTERFACE (SET TEST DATA (INITIALIZE INTERFACE (SET TEST DATA
ou⊤PUŤ		# 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
XERROR XLOOP1 OUT1+2	X. CPP CPP CPP CPP CPP CPP CPP CPP CPP CP	CH BENTLY CLOCK CL
CAN ALL	MAN THE TELL	AN ACCEPTANT OF TO
	0012	00 T3A.
04000040 044000440 04440440 40000040	000/440/40/40/06/06/40/0	
480V 840 8000000 9000000 9000000	はまままれままままままままままままままる ありかり かいり あい あい いい	44444444444444444444444444444444444444

COMPERENT TEST TOUR TEST TERRITOR ON CURRENT TEST TOUR TOUR TEST TOUR TEST TEST TO THE TEST TEST TO THE TEST TEST TEST TO THE TEST TEST TEST TO THE TEST TEST TEST TO THE TEST TO THE TEST TEST TO THE TEST TEST TO THE TEST TEST TO THE TEST TO THE TEST TEST TEST TO THE TEST TEST TO THE TES
TAPE CAN EACH BIT OF OUTPUT  TO CAN EACH BIT OF OUTPUT  TAPE CAN EACH BIT OUTPUT  TAPE CA
POWLWAP ACCEPT A PROPERTY ACCORDANCE TO CO
EX UM UNOUAL ASSENTATION OF THE TOTAL ASSESSED TO DESCRIPTION OF THE TOTAL ASSESSED TO THE TOTAL ASSESSED TOTAL ASSESSED TO THE TOTAL ASSESSED TOTAL ASSESSED TO THE TOTAL ASSES
יייייייייייייייייייייייייייייייייייייי
OUT44.
40         0.400044000040444040000000000000000000

VIS OUTPUT REGISTER #  /NO. ERROR"  /***********************************	REGISTER TWICE WITH SAME CCLEAR ERROR FLAG CCLEAR TERATION COUNT CCLEAR TEST DATA CONTTENT TEST DATA CONTTENT TEST DATA CONTTENT SET OUTPUT REGISTER CONTTENT SET OUTPUT REGISTER	COMPARE TESTER DATA  COMPARE THE SAME  COMPARE T	REGISTER TWICE CHANGE /CLEAR ERROR FLAG /SET ITERATION COUNT /TO 50 (DECIMAL) /CLEAR TEET DATA /INITIALIZE INTERFACE /GET TEST DATA /BIT SET OUTPUT REGISTER
SNA CLA JMS I JMS	/DOES SETTING OUTPUT FOR CANGE OF	100	/ / / / / / / / / / / / / / / / / / /
	00 00 00 00 00 00 00 00		0017.
VU4WWV4WWAW       VU4WWV4WWAW       VU4VWV4WWAW       VU4WWW4W	04404046 0440 0400 0400 0400 0400 0400	7.40   40.40   40.00 40.	204464V 2044
400000000000000000000000000000000000000	0 400 40 0 N		4444444 666666 666666 684666

VREAD OUTPUT REGISTER VSAVE REGISTER VGET TEST DATA VCOMPARE TO REGISTER DATA VCOMPARE TO REGISTER DATA VARE THEY THE SAME VARE THEY THE SAME VARE CEROR VINDRO ERROR VINDRO VON CURRENT TEST VCONTINUE	CCLEAR TERROR TLAG  VCCLEAR TERROR TERROR  VET TEST DATA
CCLA CLL CCLA CLL CCLA CLL CCIA CIA CIA CIA CMP CMS I XERROR CMS I XCOOP2 CMS I XCOOP2 CMS I XCOOP4 CMS I XCO	CHANGE ANY BIT IN OUTPUT TAD CAN BIT IN OUTP
	PA COUTON A
V4V4W4V4VW4WWV4WW4W W4W4400000W4VWV4W0W4W 6464WW4WW64V4V4W0640 9669W44W9VWW90W0404W	NIHO B D 4 H 4 4 4 4 6 H H F B 4 B B F A B G B A B B H H H H H H B B B B B 4 4 4 4 4 B B B B
	$\begin{array}{c} NONSHUNTENONSHUNTENONSHUNTENONN\\ \textbf{Add RUNNRUNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTT$

PAINDE

```
CCLEAR ERROR FLAG
SET ITERATION COUNT TO 4096(DECIMAL)
/INITIALIZE INTERFACE
/SET AC =7777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCLEAR ERROR FLAG
SET ITERATION COUNT TO 4096(DECIMAL)
INITIALIZE INTERFACE
                                                                                                                                                                                                        CONTINUE ERROR

(NO. ERROR

(NINPUT REGISTER NOT CLEARED:

(NUMBER OF WORDS TO BE OUTPUT

(CHECK FOR LOOP ON CURRENT TEST

(LOOP ON CURRENT TEST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CANE MASK
SAVE MASK
SAVE EXPECTED RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /READ INPUT REGISTER
/SAVE REGISTER DATA
/COMPARE TO REGISTER DATA
/WERE CORRECT BITS CLEARED
/DATA CORRECT, CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAN ALL BITS IN INPUT REGISTER BE CLEARED (DBCI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BIT SET OUTPUT REGISTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "DBCI ERROR"
                                                                                                            BIT SET OUTPUT REGISTER
                                                                                                                                            ZAVE REGISTER DATA
ZET REGISTER DATA
ZET REGISTER DATA
ZOMPLIMENT TO TEST FOR 7777
CAN ALL BITS IN INPUT REGISTER BE SET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JUMPER
                                               TYPFLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPFLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       XLOOP1
                                                                                                                                                                                                                                           XERROR
                                                                                                                                                                                                                                                                                                                                                                                                       XERROR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              XERROR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DATAL
                                                                                                                                                                                                                                                                                                                                       DATAL
                                                                                                                                                            DATAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DATAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DATAS
                                                                                                                                                                                                                                                                                                                                                                                     . +3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              +2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CMA
                                                                                                                                                                                                                                                                                                                                                                                                                      NIT2E-1
                                                                                                                          CLA CLL
DBRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLA CLL
DCA
DCA
DCA
TAD
DCSO
DBCI
CLA CLL
                                                                                            CLA CLL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SNA CLA
                                                                                                                                                                                                          SNA CLA
                                                                                                                                                                                                                                        JMS I
IN3E-1
DH1-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JMS I
IN2E-1
DH3-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      I GET
                                                                                                                                                                                                                                                                                                                                                                                                                                        3H1-1
                                                                                                             0880
                                                                                                                                                                                                                                                                                                                        DBRI
                                                                                                                                                                            LAD
                                                                                                                                                                                          CMA
                                                                                                                                                                                                                                                                                                                                         TAD
                                                                                            INTA,
                                                                                                                                                                                                                                                                                                         INTB,
                                               INT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 N2,
                                             NOTE TO THE STATE OF THE STATE 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   486
                                                                                                                                                                          1410
                                                                                                                                                                                          1444
                                                                                                                                                                                                                                                                                                                                                                                                                      1427
                                                                                                                                                                                                                                                                                                                                                                                                                                      1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1447
```

READ INPUT REGISTER

ARE ANY BITS TO BE TESTED NO. GET NEXT DATA WORD BIT SET OUTPUT REGISTER BIT CLEAR OUTPUT REGISTER

SNA JMP OBSO ORCO ORR CL

FATAL DATAL DATAL

AND

INSA.

1-15	
PAGE	
6	
16119	
n	
7	
17-JUL-72	
•	
1142	
>	
PAL18	
PA	
L PDP8 P	
AL P	
ION	
FOR TRADITIONA	
4	
FO	
STIC	
CNO	
010	
8-EA	
A DR	
SRA-	
-06	
IND	

								ON DATA ERROR																																	UN DATA ERRUR					
/SAVE REGISTER DATA	ATAC CROSPERS OF PRACTICE		/DATA CORRECT, CONTINUE	NO. ERROR	A CH PROPE		OUTPUT	DATA, ESCAPE	ALDOP WITH SAME DATA	LINCREMENT DATA PATTERN	CONTINUE TEST	CHECK FOR LOOP ON CHRRENT TENT			LATCHING DATA BITS DO NOT MOLD DATA		サンコウン スクッキャラジャー ナルシン					A SECTION OF SEC	は、 は	LAICHING BIL	MOTOR SOLD BOX TO ANY		CHARLE AND CA CAMPACA	CAC CENT CENT OF A COMP				ZREAD INPUT REGISTER	SAVE REGISTER DATA		/DID ANY BÎTS HOLD DĂTA		YES, ERROR	THE PROPE	VE	W	IE DATA, ESCAPE		VINCREMENT DATA PATTERN		CHECK FOR LOOP ON CURRENT TEST	L'OCT ON CONNENT FROM
DATA2 DATA1	DATAS		£.+.	XERROR				XLOOPZ	INSA	DATA3	INSA	XI OOP1	1N5+3		ALL NON	2 - 40 > 4	240	PUNT	7444	***	24140	e minero	T L L	DATA	244	DATAS		INGC					DATAS	DATAS	<i>!</i> *	. +5	XERROR				XLOOPE	INGA	DATA4	INGA	XLDOP1	2000
TAD	TAD	SNA CLA	JMP	T SWD	Tada C	4		SET	ユエフ	182	CMD	LMS I		_	VERIFY	450	141	450	400			-	- C		A20	TAD	NS	CMD	CSAC	0800	CLA CLL	DBRI	DCA	TAD	SNA CLA	CMP	LMS I	LN4E+1	DHOSE		6.9		m			
										INSC.						TNA	<b>b</b>				TNEA																						INGC			
3022	0 6	62	23	4	9	10	1	4	28	20	20	4	20			P.	17	15	5	2 6		0 6	3 6	2	2	2	2	27	17	10	30	3	20	20	63	27	-	25	2	77	44	5	2024	7	*	
1617	0 0	62	62	20	2 0	2 7	3 1	21	63	63	63	63	63			- 2	E	3	F	Ŧ		Ŧ	F	F	1	63	63	63	63	65	65	65	99	99	99	99	99	99	99	99	0	67	1672	19	9	ò

VERIFY THAT ALL LATCHING LINES GAN BE CLEARED INDEPENDENTLY

CCLEAR ERROR FLAG /SET ITERATION COUNT /TO 50 (DECIMAL) /CLEAR TEST /INITIALIZE INTERFACE /GET MASK FOR LATCHING BITS /MASK OFF NON LATCHING BITS /SAVE FOR TRANSMISSION /EXPECTED RESULT /SET OUTPUT REGISTER /BIT SET OUTPUT REGISTER	GET TEST DATA  BIT CLEAR INPUT REGISTER  SAVE REGISTER  SAVE REGISTER  SAVE THEY THE SAME  SAVE BE CUTPUT  SAVE CAPE ON DATA  SAVE DATA  SAVE CAPE ON DATA  SAVE SAVE  SAVE DATA  SAVE SAVE  SAVE DATA  SAVE SAVE  SAVE DATA  SAVE SAVE  SAVE SAVE  SAVE SAVE  SAVE SAVE  SAVE SAVE  SAVE	CCLEARED, DOES CLEARING ANY BIT IN INPUT CCLEAR ERROR FLAG TO 50 (DECIMAL) CCLEAR EXPECTED RESULT CLEAR EXPECTED RESULT FINITALIZE INTERFACE GET TEST DATA BIT CLEAR INPUT REGISTER SAVE REGISTER DATA TO INPUT REGISTER TO INPUT RE
1176 1176 1177 1176 1177 1176 1177 1177	THE TANK THE	3030 INB.
VV0000000044+	THE THE PROPERTY OF BEHOMEN TO PERSON AND AND AND AND AND AND AND AND AND AN	00000000000000000000000000000000000000

PAL10

CCEAR ERROR FLAG SET ITERATION COUNT TO 50 (DECIMAL) CCLEAR EXPECTED RESULT CCLEAR TEST DATA /INITIALIZE INTERFACE /GET TEST DATA /BIT SET OUTPUT REGISTER /BIT SET OUTPUT REGISTER

'DOES CLEARING INPUT REGISTER TWICE SET ANY BIT

TYPFLG F62 CPCNT DATA2 DATA1 DATAL

TAD 0850 0800 ACCA A A P

INTOA.

0 1000 4 14 4 0 10 0 0 0 0 4 4 0 10 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 10 10 10 0 

IN9A. IN10. DIND AUTON AND BURNAND NATION AND MAINTENNAND MAN AND 

XERROR

INSE I

CHEST ERROR\*

CNUMBER OF DAT WORDS

CTEST FOR LOOP WITH SAME DATA

CLOOP WITH SAME DATA

CONTINUE

CHECK FOR LOOP ON CURRENT TEST

CONTINUE

CHECK FOR LOOP ON CURRENT TEST

LAND I

COMPARE TO REGISTER DATA VARE THEY THE SAME VDATA CORRECT, CONTINUE

CCHECK FOR LOOP ON CURRENT TEST

ODES READING THE INPUT REGISTER TWICE CHANGE THE INPUT REGISTER

CCLEAR ERROR FLAG SET TERATION COUNT TO 50 (DECIMAL) CCLEAR TEST DATA INITIALIZE INTERFACE CET TEST DATA /BIT SET OUTPUT REGISTER

TYPFLG C+62 LPGNT DATA1

'6NI

DBSO

VAD.

READ INPUT REGISTER

SAVE REGISTER DATA

DATAZ

DATA2

""MASK EXPECTED RECEIVED"
"NUMBER OF DATA WORDS
TTEST FOR LOOP WITH SAME DATA
"LOOP WITH SAME DATA
"INCREMENT DATA PATTERN
"CONTINUE

XKCOOP INSA XKCOOP INSA INSA

N L N L N L

8-DGDRA-A DR8-EA DIAGNOSTIC FOR TRADITIONAL PDP8 P

IN2E-1 DH3-1

/MAINDE

```
/NO. ERROR
/"DBCI ERROR"
/"HASK EXPECTED RECEIVED"
/NUMBER OF DATA WORDS
/TEST FOR LOOP WITH SAME DATA
/LOOP WITH SAME DATA
/INCREMENT DATA PATTERN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CREAD INPUT REGISTER
CSAVE REGISTER DATA
IS OUTPUT REGISTER DATA
NO. ERROR
NO. ERROR
NUMBER OF DATA WORDS
TEST FOR LOOF WITH SAME DATA
NOREMENT DATA PATTERN
                                                                                                                                                                                                                                               CHECK FOR LOOP ON CURRENT TEST
CLOOP ON CURRENT TEST
GO TO NEXT TEST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CHECK FOR LOOP ON CURRENT TEST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BIT CLEAR OUTPUT REGISTER
   /BIT CLEAR INPUT REGISTER /BIT CLEAR INPUT REGISTER
                                             /READ INPUT RECISTER
/SAVE RECISTER DATA
/GET RECISTER DATA
/IS INPUT RECISTER Ø
/DATA CORRECT, CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                    /CLEAR ERROR FLAG
/10 50 (DECIMAL)
/CLEAR FEST DATA
/CLEAR EXPECTED RESULT
/INITIALIZE INTERFACE
                                                                                                                                                                                                                                                                                                                                                      WITH BOTH INPUT AND OUTPUT REGISTERS CLEARED POES CLEARING OUTPUT SET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WHITH BOTH INPUT AND OUTPUT REGISTERS CLEARED
                                                                                                                                                                                                                                 CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X LOCUTA NO COLUMN NO COLU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JMS I XERROR
DUT4E-1
DH3-1
                                                                                                                                                                                  TYPFLG
LPGNT
DATAL
DATAL
                                                                                                                        XERROR
                                                            DATAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DATAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DATAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DATAS
                                                                                                         +2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       +2
  DBGI
CLA
CLA
CLA
DBRI
TAD
SNA
CLA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DBCO
CLA CLL
DBRI
DCA
SNA GLA
JMP GLA
                                                                                                                                      INZE-1
DH3-1
                                                                                                                       LMS I
                                                                                                                                                                                  JMS I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CHS L
                                                                                                                                                                                                 MANA
                                                                                                                                                                                                                                                                                                                                                                                                                                                  COCA
                                                                                                                                                                                                                                                                                                                                                                                                                     TAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INOU1A.
                                                                                                                                                                                                                                                                                                                                                                                                                    INOU1.
                                                                                                                                                                                                                                                                                                          PAGE
2118
2874
2875
2776
2776
                                                                                                                                                                                                 2111
                                                                                                                                                                                                                  221122211222112221122211222112221222
```

AG COUNT A RESULT ERFACE T REGISTER	REGISTER DATA DATA COTAINUE CONTINUE TAA WORDS PWITH CURRENT DATA TA PATTERN TA PATTERN TA PATTERN TO ON CURRENT TEST	4> 00 %%	JT REGISTER JUMPER MASK JUMPER MASK TED RESULT A TPUT REGISTER	GISTER DATA DATA
CCEAR ERROR FLAG /SET ITERATION COUNT /TO 50 (DECIMAL) /CLEAR TEST DATA /CLEAR EXPECTED RESULT /INITIALIZE INTERFACE /GET TEST DATA /BIT CLEAR INPUT REGIS	CENTER REGISTER R CONTRIBUTE R REGISTSTER R R R R R R R R R R R R R R R R R R	REGRES SET STORY SECTION SECTI	SET SET OUTPUT REGIS /GET FLIPFLOP JUMPER /CCMFLEMENT /AND WITN COMPLEMENT /AND WITN COMPLEMENT /GET TEST DATA /BIT CLEAR OUTPUT REG	/READ INPUT REG /SAVE REGISTER /GET REGÍSTER D
DCA TYPFLG TAD C=62 DCA CPCNT DCA DATA1 TAD DATA1	LAND IN X TO DE LAND IN THE LA	THE INPUT REGISTER IN	DBSO DBGI CLA CLL TAD CMA TAD DATA2 TAD DATA2 TAD DATA2 TAD DATA2	DBRI CLE DCA DATA3 CIA DATA3
I NOUZ, TAR	386 + 877 = 8 77 ¥ 777 •	NOON NOON I	88020025	38850
2400480V2 840000044 840000044 8V8000048	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 - 40 0 4 0 40 2 - 40 0 0 4 4 2 - 40 0 0 0 0 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	/ B	4 N 4 V
ONNONNON	40000000000000000000000000000000000000	0000000		MMMM

COMPARE TO EXPECTED RESULT  ARE THEY THE SAME  (DATA CORRECT, CONTINUE  (NO. ERROR  ("MASK EXPECTED RECEIVED  ("MASK EXPECTED RECEIVED RECEIVED  ("MASK EXPECTED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED  ("MASK EXPECTED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED R	CCLEAR ERROR FLAG /TO 50 (DECIMAL) /CLEAR TEST DATA /INITIALIZE INTERFACE /SET AC TO 777 REGISTER /GET FLIPFLOP JUMPER MASK /COMBINE WITH MASK /COMBINE WITH MASK /GET TEST DATA /BIT CLEAR OUTPUT REGISTER	CET EXPECTED REGISTER COMPARE TO RECEIVED DATA COMPARE TO RECEIVED COMPARE T
CLA X+5  I X+5  I X X+5  I I X X X X X X X X X X X X X X X X X	TYPELG CLETCHT DATA1	O HMH 14 H
ANTEN NUMBERS HOL	I NOU WANTER TO THE WAY WANTER TO THE WANTER	H 4 O 4 O 4 O 4 O A O A O A O A O A O A O
4 C C 4 C C C 4 C C C 4 C C C C C C C C	こよろう オアイアエアのアラエイアのよりのから かんり かいん ちゅう かいしゅう かっかい しょう かいしょう しょう しょう しょう しょう しょう しょう の てっこう りょう しょう の アック・リー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	45 までまで 54 55 57 45 56 56 56 56 56 56 56 56 56 56 56 56 56
00000000000000000000000000000000000000	0 000 000 000 000 000 00 0 000 000 000	00000000000000000000000000000000000000

																DATA																	
																C	5																
SET UP TO SKIP DOES	SET ITERATION COUNT	SWIDECIE	/INITIALIZE INTERFACE		SAVE TEST DATA		VBIT SET OUTPUT REGISTER	ANTENE ANTENE ANTENE	ERROR	ZIS FLAG SET	IVE. F	INTERFACE FLAG SET		2		CHEST TON LOOP ON SAME DATA. PROADE	ME DATA	VINCREMENT DATA PATTERN	OP ON	ENT TEST	CO TO NEXT PEST	KOK WILLIAM TO THE WAY A STATE OF THE WAY A STATE O		ANDMBER OF MORDS TO BE OUTPUT	/NO. ERROR		INUMBER OF WORDS TO BE OUTPUT			ממי משוראם המי	VOLEAR ERROR FLAG		ZINITIALIZE INTERFACE
THAT EACH BIT	TYPFLG [*62	DATAS	DATA2	LUMPER	INTED	DATAL			INTIAE		INTIOK		INTICE XFBDDB			XL00P2	INTA	DATAZ	XLOOP1	INTA HO	0000 UN			INTIOK	XERROR			INTEGR	PHAT FACE BY		TYPFLG C-62	LPCNT	
/VERIFY	1404		TAD	ONA	O V	TAD	DBS0 CLA CLL	CBEI	CXD	DBSK	E E E	DBSK	T VX	INT1E-1	DH1-1				-			35 = 1	DH1-1	JMP		INT4E=1 0H1=1	-1		VERIEY		DCA		
	INTA		INTAA									INTIAE				INT10K.		INTID.			TNTABE	4			INTICE						INTO		INTSA.
	35 T T T T T T T T T T T T T T T T T T T	2 63 6	00	9 4	200	6	4 10	4 2	22	40	N N	4	4 4	9	M-1	: =	28	2 6	4	20	01 4 10 4	90	24	33	4	7 7	77	6.0			3838	90	9
	444	4	5 6	4 4	44	44	4 4	44	=	4 4	10	2	2 2	S	41	3 10	43	A A	10	3	A 4	3	7:	14	3:	* *	5	n			2452	24	2

```
CET NUMBER OF MORDS TO BE OUTPUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SAVE JOET ADDRESS OF TEST THAT FAILED
COMPLIMENT FOR NO SKIP BITS
COMPLIMENT FOR NO SKIP BITS
CET BITS TO BE TESTED
AND, GET NEXT DATA PATTERN
SAVE FOR OUTPUT
CET TEST DATA
SIT SET OUTPUT REGISTER
                                                                                                                                                                                                                                                                                                                                                                                       SAVE POINTER TO ERROR MESSAGE
                                                                                                                                                                                                                                                                                                                                                                                                                            GET POINTER TO DATA HEADER
                                                                                                                 /IS FLAG SET
/NO, CONTINUE
/YES, ERROR
/HSKIP FLAG SET**
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACLEAR ERROR FLAG
 IJUMPER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPFLG
OCTASC
XPRINT
                                                                                                                                                                                           MIXIOIX
PACATAO
PACATA
                                                                                                                                                                                                                                                                                                                                                                                       LSTOGT
                                                                                                                                          XERROR
                                                                                                                                                                                                                                                                                                            FEROR HANDLER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              YPFLG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DATOUT
                         DATA2
                                                  INT3C
DATAL
DATAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SROI
                                                                                                                                                     INITSE"1
DH1"1
                                                                                                                                                                                                                                                                                                                                                                                                                             PAGE
ERROR.
                                                                                                                                                                                                                     INTSC.
                                                                                                                                                                                                                                                                                                                                     222222222
444222222
777222222
247222222
```

JAA IND

```
SET POINTER TO MESSAGE
SET UP AUTO-INDEX REGISTER
SET UP RETURN
SET PACKED WORD
SMAP HALVES
SECODE AND OUTPUT
SET MORU
SET MORU
SET MORU
SECODE AND OUTPUT
SCONTINUE
                                                                                                                                                                                                                   /IS BIT=1
/NO. CHANGE TO ASCII Ø
/OUTPUT BIT
/CONTINUE
/TYPE 2 SPACES
/AFTER LAST BIT HAS BEEN
/OUTPUTTED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LYES, END OF MESSAGE, EXIT
                                                                                            /SAVE DATA IN MO
/SET UP TO OURPUT
/12 BITS
/GET DATA
/GET MSB INTO LINK
/SAVE REST OF WORD
/GET ASCII 1 INTO AC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /MASK UNWANTED BITS
                                                                                                                                                                                                                                                                                                                                                                                                              CHARACTER STRING OUTPUT ROUTINE
                                                                                                                                                                                                                                                                                                                                                  /RETURN
                                            ZOUTPUT 12 BIT BINARY WORD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   UNPACK, DECODE, OUTPUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPSET
PRINT+5
                                                                                                                                                                                                                                                      TYPSET
                                                                                                                                                                                                                      X TYPE
                                                                                                          CNTR1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X0077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRINT
                                                                                                                                                       RAL
                                                                                            TANDOND HONDED COAD TO THE POLICY OF THE PARTY OF THE PAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AZOZOZ
ZZOZOZ
ZZOZOZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOL
                                                                            BITOUT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPSET,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PAGE
PRINT,
                                                                                                                                        BITEL,
44
                                                                            2 2 1 1 5
2 1 4 5
2 4 1 2
2 1 2 2
3827
                                                                           32215
```

SUBTRACT 40 //SUBTRACT 40 //SUBTRACT 40 //S. CONVERT TO ASCII //OUTPUT //ADD 1 TO AC //SET CODE FOR CARRIAGE RETURN //OUTPUT //ADD 1 TO AC //A	
T • XI • XI • XIXXI- 4 + 40 + 40 + 40 + 40 + 40 + 40 + 40 +	SRØ4 INITA I
DATUTOS ON UND A CONTRACTOR ON UND A CONTRACTO	TO JOH TO
± X±XXX ⊢ Ø40000 € Ø94404 • • • • • • • • • • • • • • • • • • •	E P S S S S S S S S S S S S S S S S S S
40000000000000000000000000000000000000	2000/0         VOLUMORUALINAANDO           2000/0         0+0+0+044184400           2000/0         0+0+0+0441800           2040/0         0+1000           2040/0         0+0+0+0+0+0           2040/0         0+0+0+0+0
NO N	NUMBER         NUMBER<

/ - SET SR FOR DEVICE CODE AND CONTY

TEXT

PAGE M1. 

V\*+SET SR FOR INTERRUPT JUMPERS AND CONT. TEXT

MZ.

/-- SET Switches FOR FLIPPLOF JUMPERS AND CONTINUE! TEAT H2A.

		Z	Z
	-	<b>₹</b>	A TA O
	RECEIVED/	DATA OUT	DATA 0UT
	C = E C = E C = E E X & B E E X & B E E E E E E E E E E E E E E E E E E	+ ₩ € € 1 S + ₩ € € 1 S + ₩ € € 1 S + ₩ € € 1 S + ₩ € € 1 S + ₩ € € E ₩	CONTENTS
	TEXT	TEXT	TEXT
	4 1	N H O	0 9 10
44 0 0 0 0 44 4 0 0 4 0 0 0 0 0 0 0 0 0	NO NO 0444 NO 400 NO NO 0444 NO 4100 NO 00 0444 00 NO 046 NO 00 NA 40 00 NO 046	N N O N O 4 4 4 4 6 0 1 4 N 4 4 4 0 N 4 4 4 6 N 6 4 4 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	100 4 4 0 4 0 4 0 0 0 0 0 0 0 0 0 0 0 0
88888888888888888888888888888888888888		80000000000000000000000000000000000000	

```
0-CCDRA-A DRS-EA DIAGNOSTIC FOR TRADITIONAL PDP8 P PAL18 V146
0533 4024
0535 4024
0535 4024
0535 4024
0535 4024
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535 4026
0535
```

/DBSO ERROR/

TEXT

OUT1E,

/DBCO ERROR/

TEXT

OUTAE.

/DBRO ERROR/

TEXT

OUT7E,

/DBCI ERROR/

TEXT

INSE

/INPUT REGISTER DATA ERROR/

TEXT

INSE

/NO INTERRUPT, SKIP/

TEXT

INTZE,

/INTERRUPT ACTIVE/

INTLE, TEXT

/LATCH ERROR/

TEXT

IN4E.

/DBRI ERROR/

TEXT

IN9E,

/INTERRUPT, NO SKIP/

INTSE, TEXT

NO SKIP/

NO INTERNATIONAL		/NO SKIP/	/SKIP/
E ×		TEXT	TEXT
			IN 16E
44004	4 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	と な り む り む ち り り ち り り り り り り し り し ち	40400
22777	44444 444444 666666 406466	© न न न न न न न न न न न	MMHMW

7716

0176

-----

---

---

### ### ### ### ### ###

\$211111 000000000

1,11111

 \*\*\*\*\*\*

-----

----

PAGE 1=35

53.00

MAINDEL GEDGDRA-A DRB-EA DIAGNOSTIC FOR TRADITIONAL POPB P PALID V142 17-JUL-73

ERRORS DETECTED: Ø

LINKS GENERATED: 18

RUN-TIME: 10 SECONDS

3K CORE USED

16:19 PAGE 1=37

